

Title (en)

PROCESS TO PRODUCE COPOLYMERS THAT CONTAIN HYDROXY GROUPS, AND THEIR APPLICATION

Publication

EP 0040789 B1 19851030 (DE)

Application

EP 81103827 A 19810519

Priority

DE 3019959 A 19800524

Abstract (en)

[origin: US4357455A] Process for preparing copolymers soluble in organic solvents and containing hydroxyl groups, by the polymerization and esterification of (a) at least one alpha , beta -olefinically unsaturated carboxylic acid with (b) at least one olefinically unsaturated copolymerizable monomer and (c) at least one epoxy group-containing compound, at an elevated temperature, in the presence of a polymerization catalyst and, advantageously, a polymerization modifier, characterized in that glycidol, <IMAGE> is used as component (c), either alone or in admixture with one or more glycidyl esters with 12 to 19 carbon atoms and derived from saturated fatty acids, the number of epoxy groups being at least equivalent to the number of carboxyl groups, and in mixtures of glycidol with glycidyl esters, the number of equivalents of glycidyl esters is at most twice as great as the number of equivalents of glycidol. The invention further relates to the use of the products obtained for the preparation of air- or oven-drying coating compositions.

IPC 1-7

C08F 8/14; **C08F 246/00**; **C09D 3/80**

IPC 8 full level

C08F 2/00 (2006.01); **C08F 2/06** (2006.01); **C08F 8/00** (2006.01); **C08F 8/14** (2006.01); **C08F 220/00** (2006.01); **C08F 220/04** (2006.01); **C08F 246/00** (2006.01)

CPC (source: EP US)

C08F 8/14 (2013.01 - EP US)

Cited by

FR2555184A1; AU626823B2; EP0159643A3

Designated contracting state (EPC)

AT CH DE GB LI

DOCDB simple family (publication)

EP 0040789 A1 19811202; **EP 0040789 B1 19851030**; AT E16287 T1 19851115; DE 3019959 A1 19811203; DE 3172751 D1 19851205; JP S5716013 A 19820127; US 4357455 A 19821102

DOCDB simple family (application)

EP 81103827 A 19810519; AT 81103827 T 19810519; DE 3019959 A 19800524; DE 3172751 T 19810519; JP 7582781 A 19810521; US 26579381 A 19810521